

10 20 30 40 50  
GACGGATCGGGAGATCTCCCGATCCCCTATGGTCGACTCTCAGTACAATC

60 70 80 90 100  
TGCTCTGATGCCGCATAGTTAAGCCAGTATCTGCTCCCTGCTTGTGTGTT

110 120 130 140 150  
GGAGGTCGCTGAGTAGTGCGCGAGCAAAATTTAAGCTACAACAAGGCAAG

160 170 180 190 200  
GCTTGACCGACAATTGAGCTCGGTACCCGGGGAGATCCGGTAAGGACCAG

210 220 230 240 250  
CTTCTTTGGGAGAGAACAGACGCAGGGGCGGGAGGGAAAAAGGGAGAGGC

260 270 280 290 300  
AGACGTCACCTTCCCCTTGGCGGCTCTGGCAGCAGATTGGTTCGGTTGAGTG

310 320 330 340 350  
GCAGAAAGGCAGACGGGGACTGGGCAAGGCACTGTCGGTGACATCACGGA

360 370 380 390 400  
CAGGGCGACTTCTATGTAGATGAGGCAGCGCAGAGGCTGCTGCTTCGCCA

410 420 430 440 450  
CTTGCTGCTTCACCACGAAGGAGTTCCCGTGCCCTGGGAGCGGGTTCAGG

460 470 480 490 500  
ACCGCTGATCGGAAGTGAGAATCCCAGCTGTGTGTGTCAGGGCTGGAAGGG

510 520 530 540 550  
CTCGGGAGTGCGCGGGGCAAGTGACCGTGTGTGTAAAGAGTGAGGCGTAT

560 570 580 590 600  
GAGGCTGTGTGCGGGGCAGAGGCCCAAGATCTCAAGGGGCCCATACATGTG

610 620 630 640 650  
TACCATCGATTGCAGGGGAGATACCATGATCACGAAGGTGGTTTTCCAG

660 670 680 690 700  
GGCGAGGCTTATCCATTGCACTCCGGATGTGCTGACCCCTGCGATTTCCC

710 720 730 740 750  
CAAAGCTTGGAAGTTCGACTGCATAATTTGTGGTAGTGGGGGACTGCGTT

760 770 780 790 800  
CGCGCTTTCCCTGACTTTCTGGAGTTTCAAAAGTAGACTGTACGCTAAC

810 820 830 840 850  
CGGATCCCTAGAGTCGACCTGCAGGCATGCAGAAGACAATTAGCAGGCA

860 870 880 890 900  
TGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCT

910 920 930 940 950  
GGGGCTCTAGGGGGTATCCCCACGCGCCCTGTAGCGGCGCATTAAGCGCG

Fig. 1A

960 970 980 990 1000  
GCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCT

1010 1020 1030 1040 1050  
AGCGCCCGCTCCTTTTCGCTTTCTTCCTTCCTTTCTCGCCACGTTGCGCG

1060 1070 1080 1090 1100  
GCTTTCCCCCGTCAAGCTCTAAATCGGGGCATCCCTTTAGGGTTCCGATTT

1110 1120 1130 1140 1150  
AGTGCTTTACGGCACCTCGACCCCCAAAAAACTTGATTAGGGTGATGGTTC

1160 1170 1180 1190 1200  
ACGTAGTGGGCCATCGCCCTGATAGACGGTTTTTTCGCCCTTTGACGTTGG

1210 1220 1230 1240 1250  
AGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTC

1260 1270 1280 1290 1300  
AACCCTATCTCGGTCTATTCTTTTGATTTATAAGGGATTTTGGGGATTTTC

1310 1320 1330 1340 1350  
GGCCTATTGGTTAAAAAATGAGCTGATTTAAACAAAAATTTAACGCGAATT

1360 1370 1380 1390 1400  
AATTCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCC

1410 1420 1430 1440 1450  
CAGGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAG

1460 1470 1480 1490 1500  
GTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGC

1510 1520 1530 1540 1550  
ATCTCAATTAGTCAGCAACCATAGTCCCGCCCCCTAACTCCGCCCATCCCCG

1560 1570 1580 1590 1600  
CCCCCTAACTCCGCCCAGTTCCGCCCATCTCCGCCCATGGCTGACTAAT

1610 1620 1630 1640 1650  
TTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCTGCCTCTGAGCTATTCC

1660 1670 1680 1690 1700  
AGAAGTAGTGAGGAGGCTTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTC

1710 1720 1730 1740 1750  
CCGGGAGCTTGTATATCCATTTTCGGATCTGATCAGCACGTGTTGACAAT

1760 1770 1780 1790 1800  
TAATCATCGGCATAGTATATCGGCATAGTATAATACGACAGGTGAGGAA

1810 1820 1830 1840 1850  
CTAAACCATGGCCAAAGTTGACCAGTGCCGTTCCGGTGCTCACC GCCCGCG

1860 1870 1880 1890 1900  
ACGTGCGCCGAGCGGTGAGTTCTGGACCGACCGGCTCGGGTTCTCCCGG

Fig. 1B

1910            1920            1930            1940            1950  
 GACTTCGTGGAGGACGACTTCGCCGGTGTGGTCCGGGACGACGTGACCCCT  
  
 1960            1970            1980            1990            2000  
 GTTCATCAGCGCGGTCCAGGACCAGGTGGTGCCGGACAACACCCTGGCCT  
  
 2010            2020            2030            2040            2050  
 GGGTGTGGGTGCGCGGCCTGGACGAGCTGTACGCCGAGTGGTCGGAGGTG  
  
 2060            2070            2080            2090            2100  
 GTGTCCACGAACCTCCGGGACGCCTCCGGGCGGCCATGACCGAGATCGG  
  
 2110            2120            2130            2140            2150  
 CGAGCAGCCGTGGGGGCGGGAGTTCGCCCTGCGCGACCCGGCCGGCAACT  
  
 2160            2170            2180            2190            2200  
 GCGTGCACTTCGTGGCCGAGGAGCAGGACTGACACGTGCTACGAGATTTTC  
  
 2210            2220            2230            2240            2250  
 GATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCG  
  
 2260            2270            2280            2290            2300  
 GGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCT  
  
 2310            2320            2330            2340            2350  
 TCGCCCACCCCAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGC  
  
 2360            2370            2380            2390            2400  
 AATAGCATCACAAATTTACAAATAAAGCATTTTTTTCACCTGCATTCTAG  
  
 2410            2420            2430            2440            2450  
 TTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGTATACCGT  
  
 2460            2470            2480            2490            2500  
 CGACCTCTAGCTAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTG  
  
 2510            2520            2530            2540            2550  
 TGAAATTGTTATCCGCTCACAAATCCACACAACATACGAGCCGGAAGCAT  
  
 2560            2570            2580            2590            2600  
 AAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAAATTG  
  
 2610            2620            2630            2640            2650  
 CGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTG  
  
 2660            2670            2680            2690            2700  
 CATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCG  
  
 2710            2720            2730            2740            2750  
 CTCTTCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTGCTTCGGCTGC  
  
 2760            2770            2780            2790            2800  
 GGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAA  
  
 2810            2820            2830            2840            2850  
 TCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGC

Fig. 1C

2860 2870 2880 2890 2900  
CAGGAACCGTAAAAAGGCCGCTTGCTGGCGTTTTTCCATAGGCTCCGCC

2910 2920 2930 2940 2950  
CCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAAC

2960 2970 2980 2990 3000  
CCGACAGGACTATAAAGATACCAGGCGTTTTCCCCCTGGAAGCTCCCTCGT

3010 3020 3030 3040 3050  
GCGCTCTCCTGTTCCGACCCCTGCCGCTTACCGGATACCTGTCCGCCTTTC

3060 3070 3080 3090 3100  
TCCCTTCGGGAAGCGTGGCGCTTTCTCAATGCTCACGCTGTAGGTATCTC

3110 3120 3130 3140 3150  
AGTTCGGTGTAGGTCGTTCCGCTCCAAGCTGGGCTGTGTGCACGAACCCCC

3160 3170 3180 3190 3200  
CGTTCAGCCCCGACCGCTGCCGCTTATCCGGTAACTATCGTCTTGAGTCCA

3210 3220 3230 3240 3250  
ACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGG

3260 3270 3280 3290 3300  
ATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTG

3310 3320 3330 3340 3350  
GCCTAACTACGGCTACACTAGAAAGGACAGTATTGGTATCTGCGCTCTGC

3360 3370 3380 3390 3400  
TGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAA

3410 3420 3430 3440 3450  
CAAACCACCGCTGGTAGCGGTGGTTTTTTTGTGTTGCAAGCAGCAGATTAC

3460 3470 3480 3490 3500  
GCCGAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGT

3510 3520 3530 3540 3550  
CTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGA

3560 3570 3580 3590 3600  
TTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTT

3610 3620 3630 3640 3650  
TAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAAT

3660 3670 3680 3690 3700  
GCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCC

3710 3720 3730 3740 3750  
ATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTT

3760 3770 3780 3790 3800  
ACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGG

Fig. 1D

3810 3820 3830 3840 3850  
CTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGA

3860 3870 3880 3890 3900  
AGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAAATTGTTGCCG

3910 3920 3930 3940 3950  
GGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTSCGCAACGTTGTTG

3960 3970 3980 3990 4000  
CCATTGCTACAGGCATCGTGGTGTACGCTCGTCTGTTTGGTATGGCTTCA

4010 4020 4030 4040 4050  
TTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTT

4060 4070 4080 4090 4100  
GTGCAAAAAAGCGGTTAGCTCCTTCGGTCCCTCCGATCGTTGTCAGAAGTA

4110 4120 4130 4140 4150  
AGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCT

4160 4170 4180 4190 4200  
CTTACTGTTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTC

4210 4220 4230 4240 4250  
AACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCC

4260 4270 4280 4290 4300  
CGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTG

4310 4320 4330 4340 4350  
CTCATCATTTGAAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACC

4360 4370 4380 4390 4400  
GCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTT

4410 4420 4430 4440 4450  
CAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGG

4460 4470 4480 4490 4500  
CAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAATGTTGAATACT

4510 4520 4530 4540 4550  
CATACTCTTCTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTC

4560 4570 4580 4590 4600  
TCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAACAAATAGGG

4610 4620 4630  
GTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTC

Fig. 1E

u1baelZeo

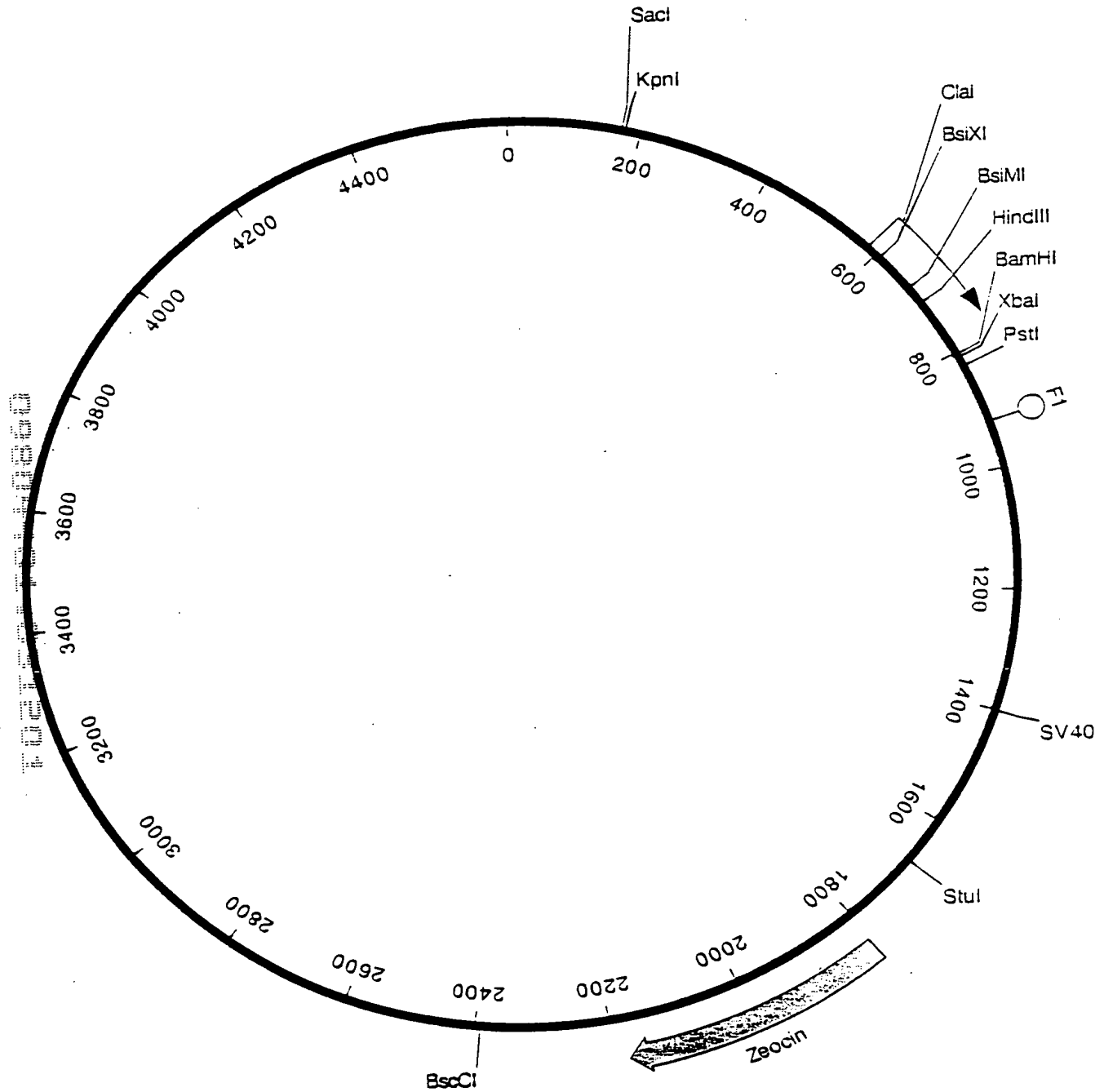


Fig. 2

0004494 034304

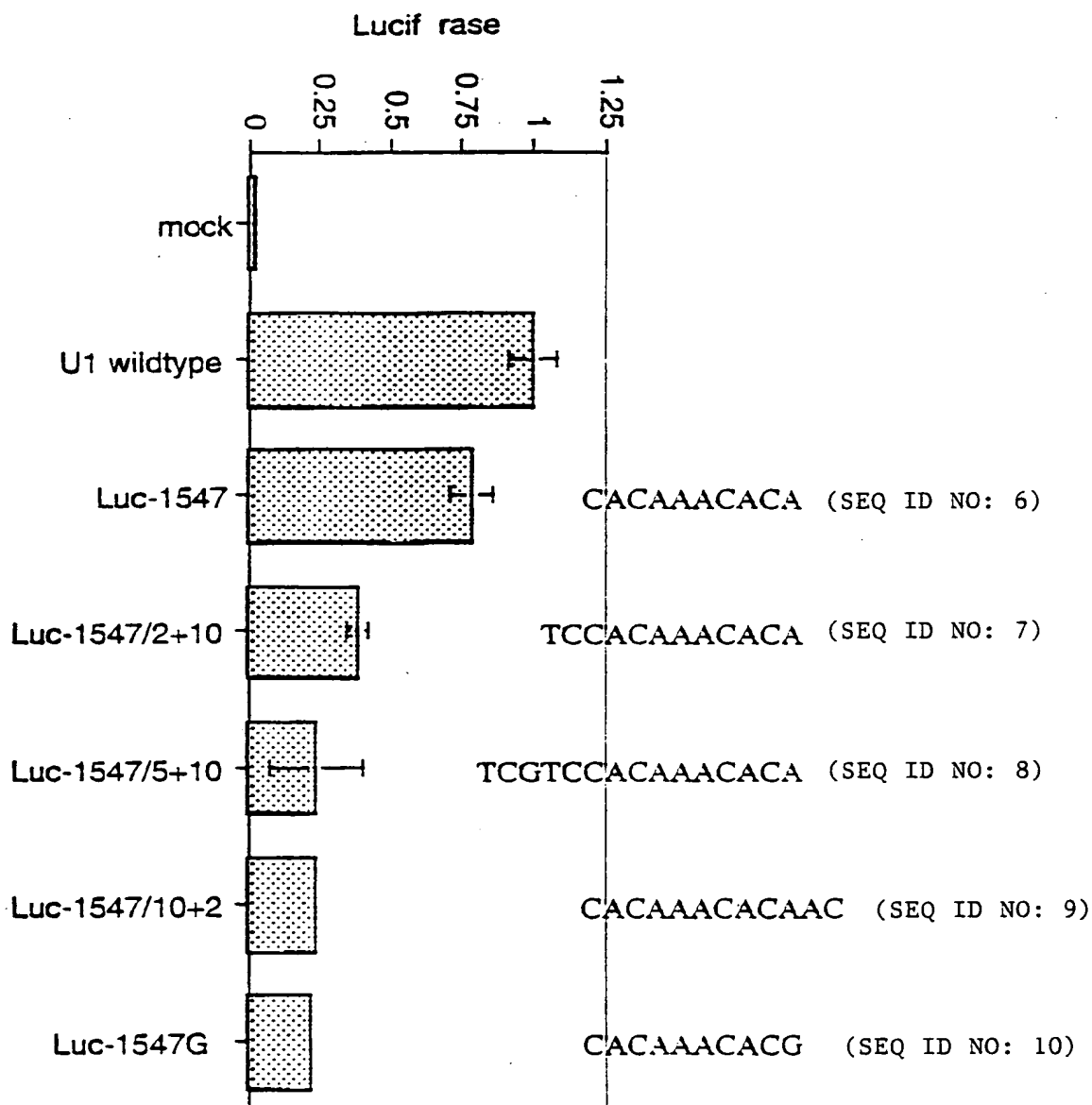


Fig. 3

## Bae1/U1 construct

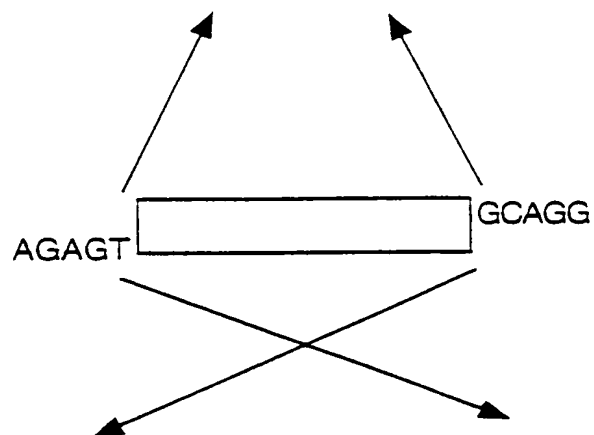
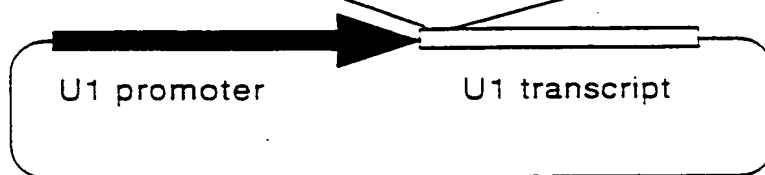


Fig. 4